

Varnishes and Sealers, Electrical



1. Scope

This standard covers the requirements for electrical varnishes and sealers.

This standard applies to the stock numbers cited in Section 6.

2. Application

Varnishes are used to provide a dielectric finish with oil, moisture, and acid-resistant coatings.

Sealers are used to spray over insulation on wire and cable splices, as a general-purpose sealer, or for touch-up insulation on motor windings and frames.

3. Requirements

Varnishes shall meet the requirements shown in Table 3a.

Table 3a. Requirements, Varnishes

| | |
|----------------------------------|------------|
| Color | Clear |
| Size | 1 qt can |
| Air-Drying Tack Free Time | 1 hour |
| Dry Dielectric Strength | 2500 V/mil |
| Wet Dielectric Strength | 600 V/mil |

Sealers shall meet the requirements shown in Table 3b.

Table 3b. Requirements, Sealers

| | |
|--|-----------------|
| Color | Clear |
| Size | 16 oz spray can |
| Air-Drying Tack Free Time 77° F | 15 minutes |
| Air-Drying Tack Free Time 40° F | 30 minutes |
| Dielectric Strength | 850 V/mil |

4. Packaging

Varnishes and sealers shall be packaged to prevent damage during shipping, handling, and storage.

The package shall be legibly marked with:

- Manufacturer name
- Manufacturer part number
- Product description
- SCL stock number

Shipping containers shall be legibly marked with:

- SCL purchase order number
-

5. Issuance

| Stock No. | Stock Unit |
|------------------|-------------------|
| 725471 | QT |
| 725474 | CN |

6. Approved Manufacturers

| Stock No. | Description | Manufacturer | Catalog No. |
|------------------|--|---------------------|--------------------|
| 725471 | Insulating varnish, 1 qt can | Glyptal | 1202-QT |
| 725474 | Scotch insulating spray, 16 oz spray can | 3M | 1601 |

7. Sources

SCL Stock Catalog page 72-22; September 20, 2004

Lu, Curtis; SCL Standards Engineer and originator of 7525.35 (curtis.lu@seattle.gov)

www.glyptal.com/glyptal_products.html

www.3m.com